INNOLUX DISPLAY CORPORATION

MT220WW01 V.7 LCD MODULE SPECIFICATION

( ) Preliminary Specification

(●) Final Specification

Approved by	Checked by	Prepared by

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INNOLUX   DISPLAY   CORPORATION

MT220WW01 V.7 LCD MODULE SPECIFICATION

Department	Prepared by	Checked by
MKT		
PD — EE		
PD — ME		
TD		
RA		

Innolux Display Corporation

Document Number: MT220WW01 V.7-DR4-26

Version:1.0

Record of Revision

Version	Revise Date	Page	Content
1.0	2009-4-14	All	Pre spec edition
2.0	2009-8-4	5	NTSC Update (From 68% to 70%)
	2009-8-4	5	TCO 5.0 Compliance Update
	2009-8-4	5	Weight Update (From Max 2200g to Max 1800g)
	2009-8-4	7	FFC Cancelled
	2009-8-4	7	Rear View of LCM Update
	2009-8-4	15	
	2009-8-4	P16	White Uniformity Minimum Data Update

For the 2009-8-4 / Page 15 row:

Parameter	Symbol	Value Min.	Value Typ.	Value Max.	Unit	Note
Light Bar Input Voltage	VLED	-	42.9	44.2	VDC	(Duty 100%)
Light Bar Input Current	ILED	-	-	360	mADC	1,2,3
Power Consumption	PLED	-	-	15.91	Watt	4
LED Life Time	LBL	-	30000	-	Hrs	5

Contents:

A. General Specification

NO.	Item	Specification	Remark
1	Display resolution (pixel)	1680(H) X 1050(V), WSXGA+ resolution	
2	Active area (mm)	473.76(H) X 296.1(V)	
3	Screen size (inch)	22 inches diagonal	
4	Pixel pitch (mm)	0.282(H) X 0.282(V)	
5	Color configuration	R, G, B vertical stripe	
6	Overall dimension (mm)	493.7 (W) X 320.1 (H) X 9.8 (D) (Typ.)	
7	Weight (g)	1800 (max.)	
8	Surface treatment	Anti-glare, Haze = 25%, Hard coating (3H)	Note 1
9	Input color signal	8 bit LVDS	
10	Display colors	16.7 M (6 bit with Hi-FRC)	
11	Color saturation	70% NTSC	
12	Optimum viewing direction	6 o'clock	
13	Backlight	Side-light bar (White LED)	
14	RoHS	RoHS compliance	
15	Halogen Free	Halogen free compliance	
16	TCO 5.0	TCO 5.0 compliance	Note 2

Note 1: Glare Option available

Note 2: Only Anti-Glare can meet TCO 5.0.

B. Electrical Specifications

1.Pin assignment

1.1. TFT panel Connector

Foxconn GS23302-0011R-7F or mechanical interface equivalent connector.

Pin No.	Symbol	Description
Frame	VSS	Ground
1	RXinO0-	-LVDS differential data input, Chan 0-Odd
2	RXinO0+	+LVDS differential data input, Chan 0-Odd
3	RXinO1-	-LVDS differential data input, Chan 1-Odd
4	RXinO1+	+LVDS differential data input, Chan 1-Odd
5	RXinO2-	-LVDS differential data input, Chan 2-Odd
6	RXinO2+	+LVDS differential data input, Chan 2-Odd
7	VSS	Ground
8	RXOC-	-LVDS differential Clock input (Odd)
9	RXOC+	+LVDS differential Clock input (Odd)
10	RXinO3-	-LVDS differential data input, Chan 3-Odd
11	RXinO3+	+LVDS differential data input, Chan 3-Odd
12	RXinE0-	-LVDS differential data input, Chan 0-Even
13	RXinE0+	+LVDS differential data input, Chan 0-Even
14	VSS	Ground
15	RXinE1-	-LVDS differential data input, Chan 1-Even
16	RXinE1+	+LVDS differential data input, Chan 1-Even
17	VSS	Ground
18	RXinE2-	-LVDS differential data input, Chan 2-Even
19	RXinE2+	+LVDS differential data input, Chan 2-Even
20	RXEC-	-LVDS differential Clock input (Even)
21	RXEC+	+LVDS differential Clock input (Even)
22	RXinE3-	-LVDS differential data input, Chan 3-Even
23	RXinE3+	+LVDS differential data input, Chan 3-Even
24	VSS	Ground
25	VSS	Ground
26	NC	No Connection
27	VSS	Ground
28	VCC	+5.0V power supply
29	VCC	+5.0V power supply
30	VCC	+5.0V power supply
Frame	VSS	Ground
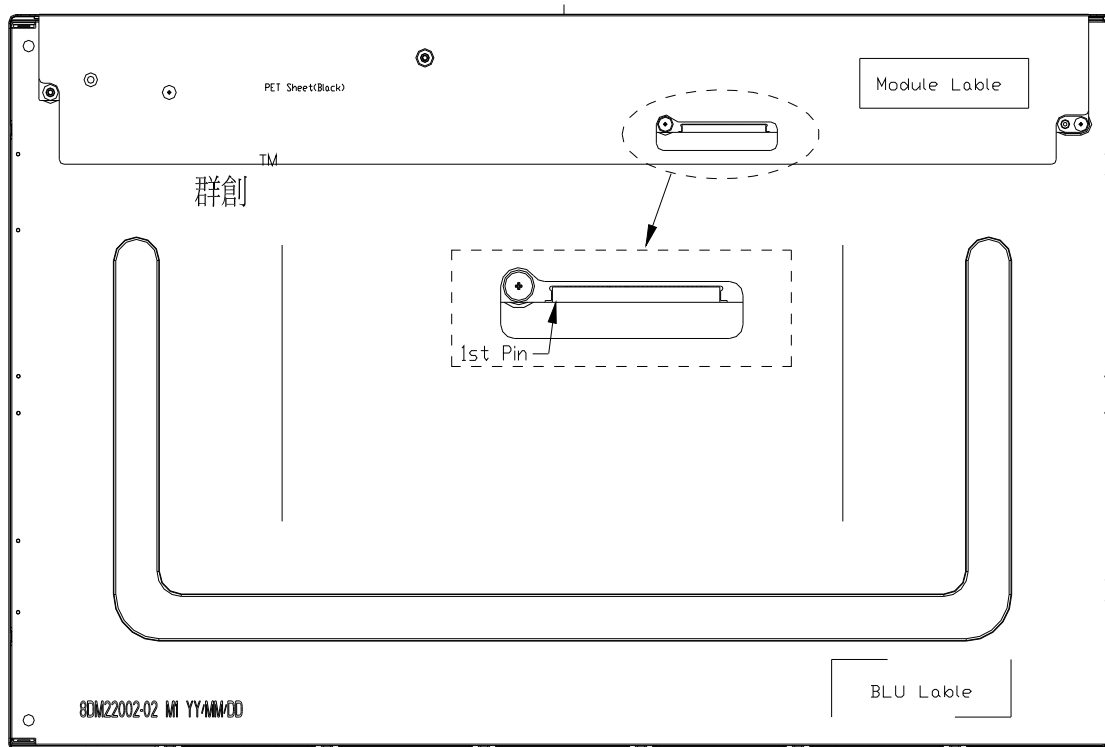
Rear View of LCM

1.2. Recommend Connector for Backlight Unit

This connector is mounted on the monitor system board for LED light-bar FFC mating.

Connector Name/Designation	Match Connector
Manufacturer	Entery INDUSTRIAL CO.,LTD
Mating type part number	7080-Q10N-00R

1.3   Light-bar Connector Pin Assignment

Upper Light-bar Connector Pin Assignment:

Pin No	Symbol	Description
1	IRLED1	LED current sense for string 1
2	IRLED1	LED current sense for string 1
3	IRLED2	LED current sense for string 2
4	VLED	LED power supply
5	VLED	LED power supply
6	VLED	LED power supply
7	VLED	LED power supply
8	IRLED2	LED current sense for string 2
9	IRLED3	LED current sense for string 3
10	IRLED3	LED current sense for string 3

Lower Light-bar Connector Pin Assignment:

Pin No	Symbol	Description
1	IRLED1	LED current sense for string 1
2	IRLED1	LED current sense for string 1
3	IRLED2	LED current sense for string 2
4	VLED	LED power supply
5	VLED	LED power supply
6	VLED	LED power supply
7	VLED	LED power supply
8	IRLED2	LED current sense for string 2
9	IRLED3	LED current sense for string 3
10	IRLED3	LED current sense for string 3

Rear View of LCM

2. Absolute maximum ratings

Parameter	Symbol	Values		Unit	Remark
		Min.	Max.		
Power voltage	V_{cc}	-0.3	6.0	V	At 25°C
Input signal voltage	V_{LH}	-0.3	4.3	V	At 25°C
Operating temperature	Top	0	50	°C	Note 1
Storage temperature	T_{ST}	- 20	60	°C	Note 2

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

Note 2: The unit should not be exposed to corrosive chemicals.
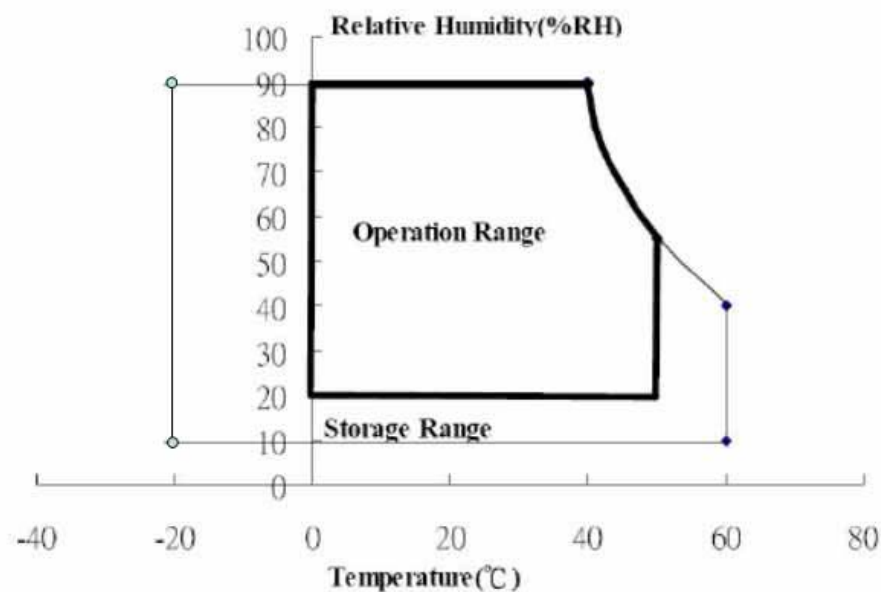
3. Electrical characteristics

a. Typical operating conditions

Item		Symbol	Min.	Typ.	Max.	Unit	Remark
Input Voltage		V_{cc}	4.5	5	5.5	V	
Permissive Power Input Ripple		V_{RF}	-	-	0.25	V	
Input Current	Black	I_{cc}	-	900	1400	mA	Note 1
	White	I_{cc}	-	700	-		Note 2
	Mosaic	I_{cc}	-	800	-		Note 3
Rush Current		I_{Rush}	-	-	4	A	Note 4
Logic Input Voltage LVDS: IN+, IN-	Common Mode Voltage	VCM	-	1.2	-	V	
	Differential Input Voltage	VID	100	-	600	mV	
	Threshold Voltage (High)	VTH	-	-	100	mV	Note 5
	Threshold Voltage (Low)	VTL	-100	-	-	mV	Note 5

Note 1 : The specified current is under the V_{cc} =5V, 25°C, fv=60Hz (frame frequency) condition whereas black pattern is displayed.

Note 2 : The specified current is under the Vcc =5V, 25°C, fv=60Hz (frame frequency) condition whereas white pattern is displayed.

Note 3 : The specified current is under the Vcc =5V, 25°C, fv=60Hz (frame frequency) condition whereas mosaic pattern(black & white [8*6]) is displayed.

White : 255 Gray

Black : 0 Gray
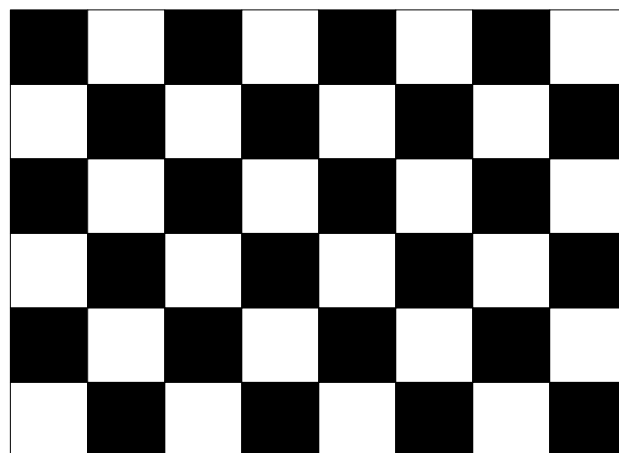
Note 4 : test condition :

(1) V_{DD} = 5 V, V_{DD} rising time = 470 μs ± 10%

(2) Pattern: Mosaic pattern

90%

V_{DD}

Ton=470 μs ± 10%

(3) Test circuit

5 V

M1
2SK1059

VDD (LCD INPUT)

R1
47K

FUSE

C1
1uF

CONTROL SIGNAL

(HIGH to LOW)

R2
1K

M2
2SK1399

12V

R3
47K

C2

C3
1uF

10000pF
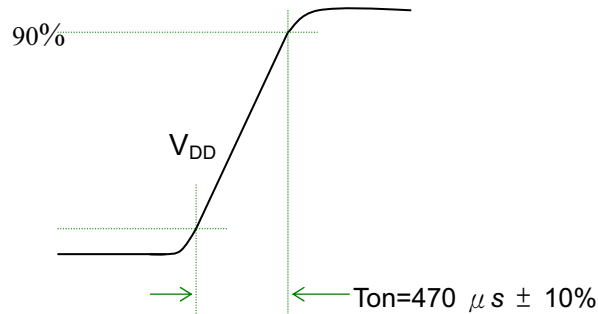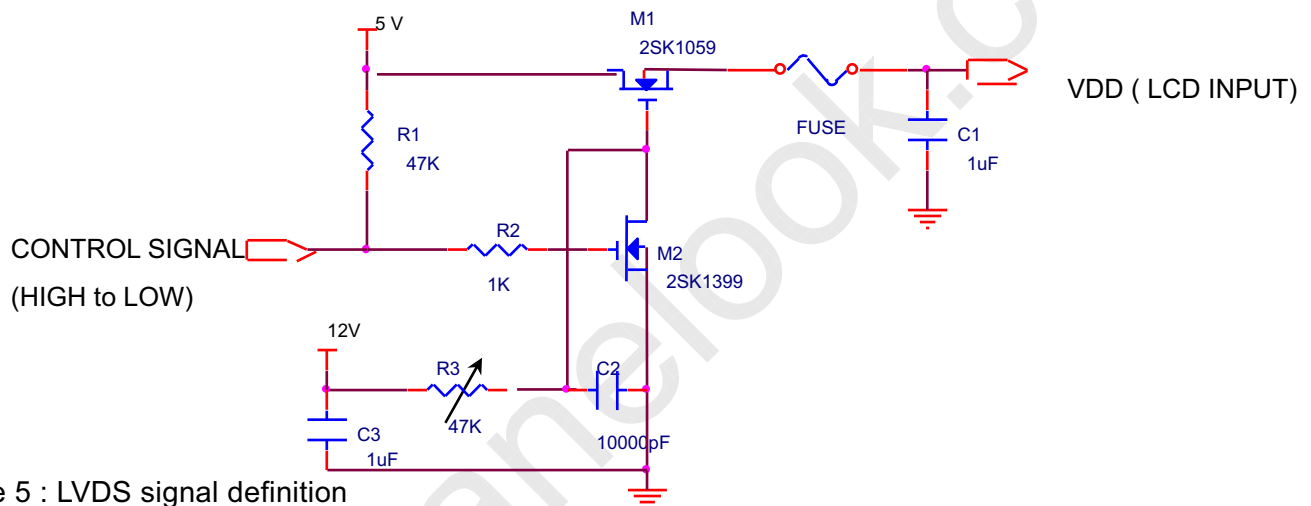
Note 5 : LVDS signal definition

VIN+

100Ω

LVDS Receiver

VIN−

VIN−

VCM

VIN+

VCM+

VID

VIH−

VIL−

VIH+

VIL+
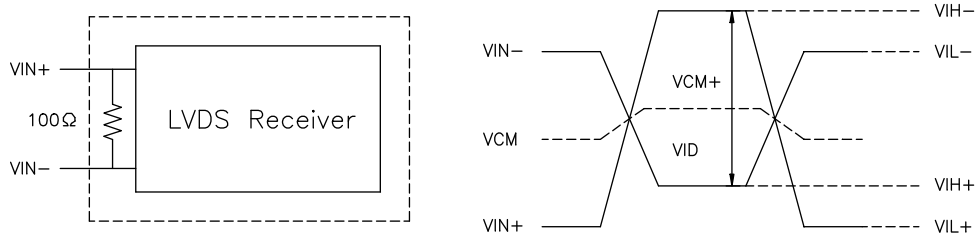
VIN_+ = Positive differential DATA & CLK Input

VIN- = Negative differential DATA & CLK Input

$VID = VIN_+ - VIN\text{-}$,

$\Delta VCM = |VCM_+ - VCM\text{-}|$,

$\Delta VID = |VID_+ - VID\text{-}|$,

$VID+ = |VIH_+ - VIH\text{-}|$,

$VID\text{-} = |VIL_+ - VIL\text{-}|$,

$VCM = (VIN_+ + VIN\text{-})/2$,

$VCM+ = (VIH_+ + VIH\text{-})/2$,

$VCM\text{-} = (VIL_+ + VIL\text{-})/2$,

Note 6 : Power on sequence for LCD V_{DD}
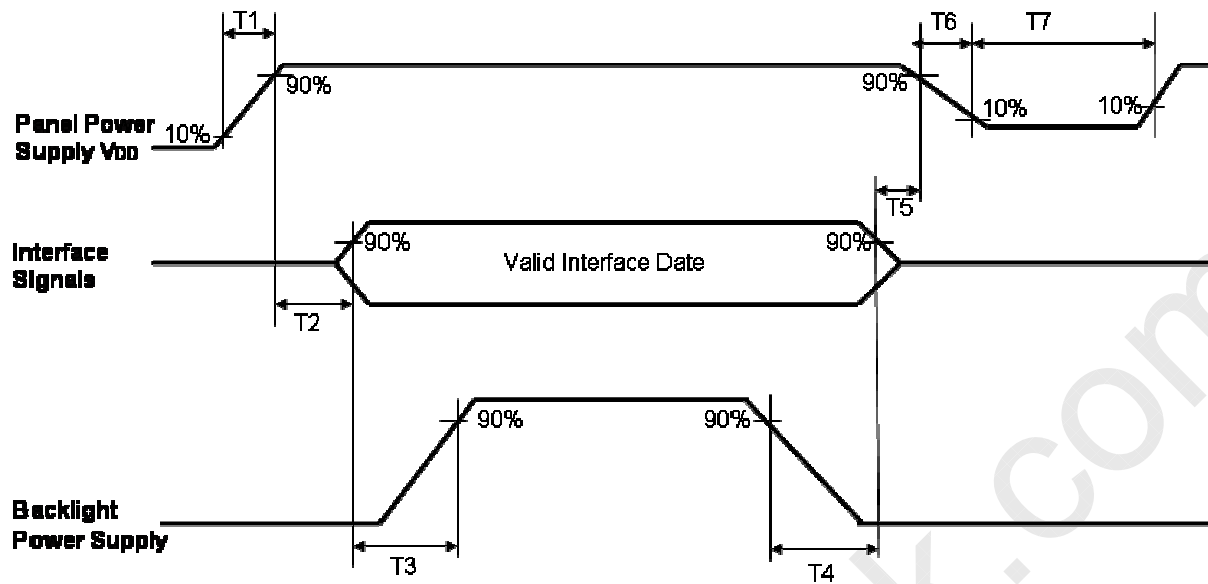
Parameter	Value			Unit
	Min.	Typ.	Max.	ms
T1	0.1	--	10	ms
T2	0	--	50	ms
T3	200	250	--	ms
T4	100	250	--	ms
T5	0	20	50	ms
T6	0.1	--	10	ms
T7	1000	--	--	ms

b. Display color vs. input data signals

The brightness of each primary color (red, green and blue) is based on the 8-bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

| Color		Red MSB							Red LSB	Green MSB							Green LSB	Blue MSB							Blue LSB
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2	B1	B0
Basic colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Blue(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Red	Red(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(001)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(002)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red(253)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255) bright	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green	Green(000)dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Green(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Green(253)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
	Green(254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	Green(255)bright	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Blue	Blue(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Blue(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	Blue(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	Blue(255) bright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

c. Input signal timing

Support Input Timing Table

The input signal timing specifications are shown as the following table and timing diagram.

Signal	Item	Description	Min.	Typ.	Max.	Unit
Clock	Dclk	period	12.2	16.8	21.23	nS
		frequency	47.1	59.6	82	MHz
Vertical	T_{V_TOTAL}	V total line number	1059	1080	1100	T_H
	T_{V_DATA}	Data duration	1050	1050	1050	T_H
	T_{VB}	V-blank	9	30	50	T_H
	f_V	frequency	50	60	76	Hz
Horizontal	T_{H_TOTAL}	H total pixel number	890	920	1004	DClk
	T_{H_DATA}	Data duration	840	840	840	DClk
	T_{HB}	H-blank	73	80	164	DClk

Note: Because this module is operated by DE only mode, Hsync and Vsync input signals should be set to low logic level or ground. Otherwise, this module would operate abnormally.

INPUT SIGNAL TIMING DIAGRAM
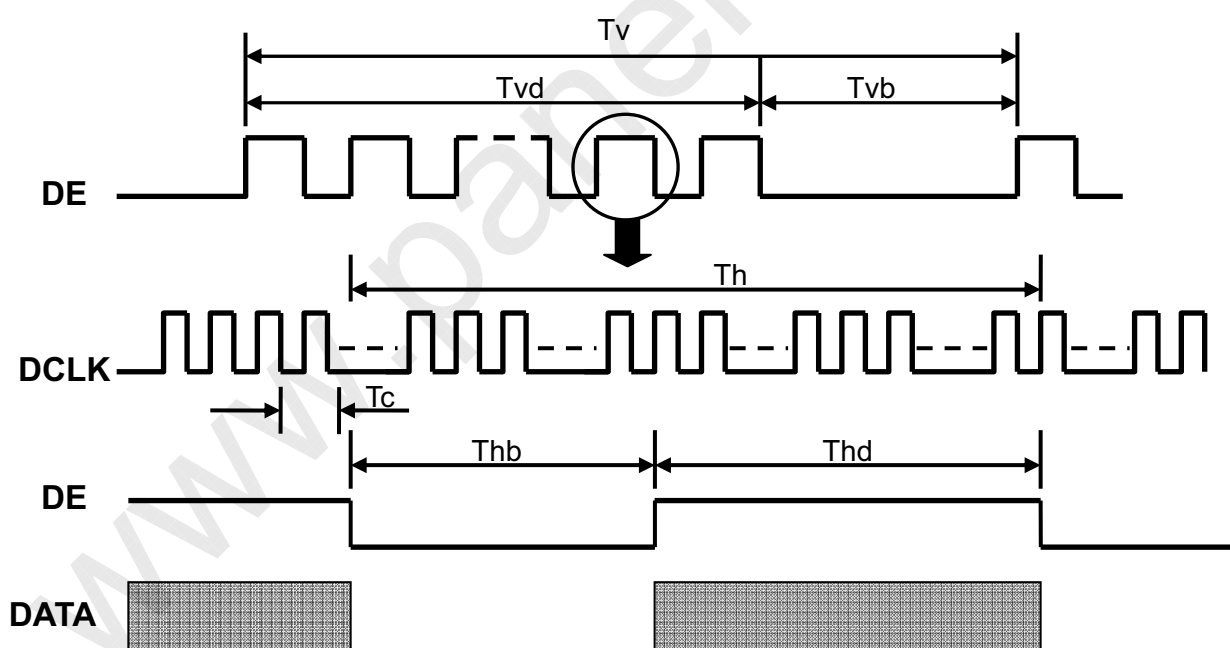
d. Display Position

D(1, 1)	D(2, 1)	……	D(840, 1)	……	D(1679, 1)	D(1680, 1)
D(1, 2)	D(2, 2)	……	D(840, 2)	……	D(1679, 2)	D(1680, 2)
⋮		……	⋮	……	⋮	⋮
D(1, 525)	D(2, 525)	……	D(840, 525)	……	D(1679, 525)	D(1680, 525)
⋮		……	⋮	……	⋮	⋮
D(1, 1049)	D(2, 1049)	……	D(840, 1049)	……	D(1679, 1049)	D(1680, 1049)
D(1, 1050)	D(2,1050)	……	D(840, 1050)	……	D(1679,1050)	D(1680, 1050)

e. Backlight Unit

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Light Bar Input Voltage	VLED	-	42.9	44.2	VDC	(Duty 100%)
Light Bar Input Current	ILED	-	-	360	mADC	1,2,3
Power Consumption	PLED	-	-	15.91	Watt	4
LED Life Time	LBL	-	30000	-	Hrs	5

Note 1: There are two Light Bars, and the specified current is input LED chip 100% duty current.

Note 2: The sensing current of each string is 60mA.

Note 3: Each light bar have three current sensing strings, so that each light bar input current is 180mA.

Note 4: $P_{LED} = I_{LED} \times V_{LED}$.

Note 5: The life time is determined as the time at which luminance of the LED becomes 50% of the initial brightness or not normal lighting at I_{LED}=360mA on condition of continuous operating at 25±2°C.

C. Optical Specifications

| Item	Symbol	Condition	Specification Min.	Specification Typ.	Specification Max.	Unit	Remark
Response time	Tr	$\theta = 0°$		1.5	3	ms	Note 2
Response time	Tf	$\theta = 0°$		3.5	7	ms	Note 2
Response time	Tr+Tf	$\theta = 0°$		5	10	ms	Note 2
Contrast ratio	CR	θ= 0°	700	1000			Note 1,3
Viewing angle	Top	CR≧10	70	80		deg.	Note 1,3,5
Viewing angle	Bottom	CR≧10	70	80		deg.	Note 1,3,5
Viewing angle	Left	CR≧10	75	85		deg.	Note 1,3,5
Viewing angle	Right	CR≧10	75	85		deg.	Note 1,3,5
Brightness (Center)	YL		200	250		nit	Note 1,4,8
Color chromaticity(CIE)	Wx	$\theta = 0°$	-0.03	0.313	+0.03		Note 1
Color chromaticity(CIE)	Wy	$\theta = 0°$	-0.03	0.329	+0.03		Note 1
Color chromaticity(CIE)	Rx	$\theta = 0°$	-0.03	0.640	+0.03		Note 1
Color chromaticity(CIE)	Ry	$\theta = 0°$	-0.03	0.345	+0.03		Note 1
Color chromaticity(CIE)	Gx	$\theta = 0°$	-0.03	0.324	+0.03		Note 1
Color chromaticity(CIE)	Gy	$\theta = 0°$	-0.03	0.619	+0.03		Note 1
Color chromaticity(CIE)	Bx	$\theta = 0°$	-0.03	0.150	+0.03		Note 1
Color chromaticity(CIE)	By	$\theta = 0°$	-0.03	0.059	+0.03		Note 1
White uniformity (9 points)	δw		0.70	0.75			Note 1,6
Cross talk	Ct				1.5%		Note 7

Note : Ambient temperature = 25°C.

To be measured in dark room after backlight warm up 10 minutes.

Note 1: To be measured with a viewing cone of 2°by Topcon luminance meter BM-5A.

Note 2: Definition of response time:

The output signals of BM-7 are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval is between the 10% and 90% of amplitudes. Refer to figure as below :
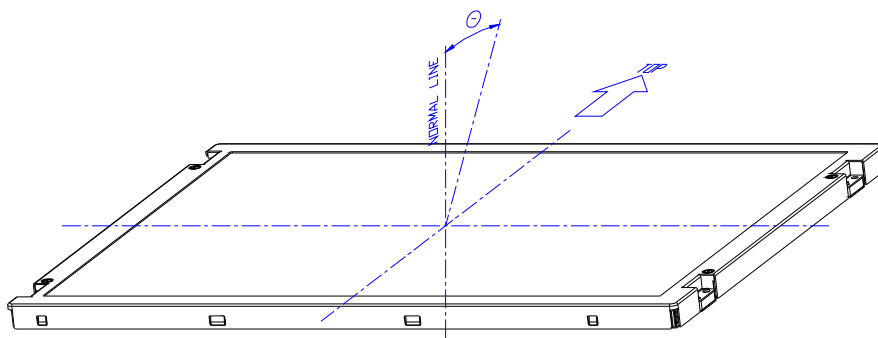
"White"　　　　　"Black"　　　　　"White"

Tr　　　Tf

Signal(Relative value)
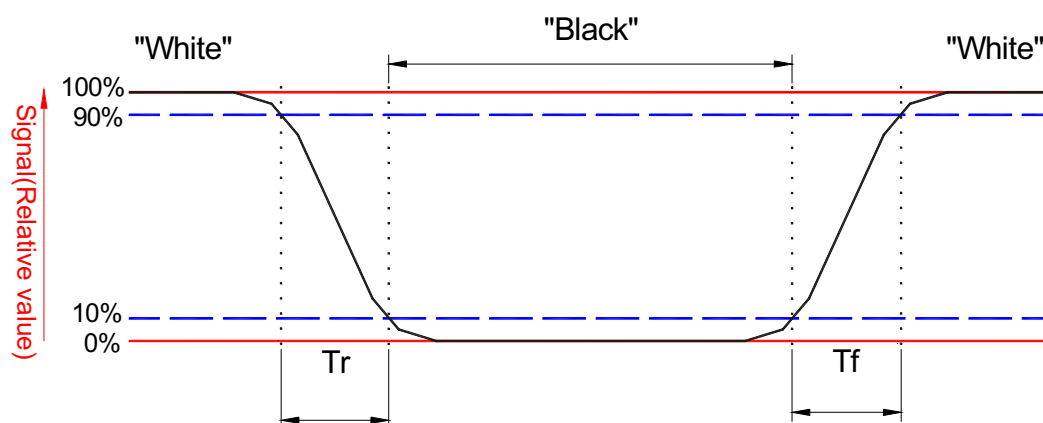
Note 3: Definition of contrast ratio:

Contrast ratio is calculated by the following formula.

Contrast ratio (CR)= $\dfrac{\text{Brightness on the "white" state}}{\text{Brightness on the "black" state}}$

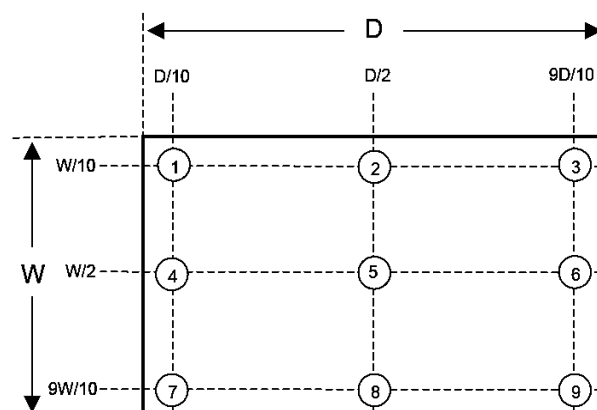Note 4: Driving conditions for LED Light Bar: I_{LED}=360mA

Note 5: Definition of viewing angle.

Note 6: Definition white uniformity:

Luminance are measured at the following nine points (P1~P9).

$\delta_W = \dfrac{\text{Minimum Brightness of nine points (P1~P9).}}{\text{Maximum Brightness of nine points (P1~P9).}}$
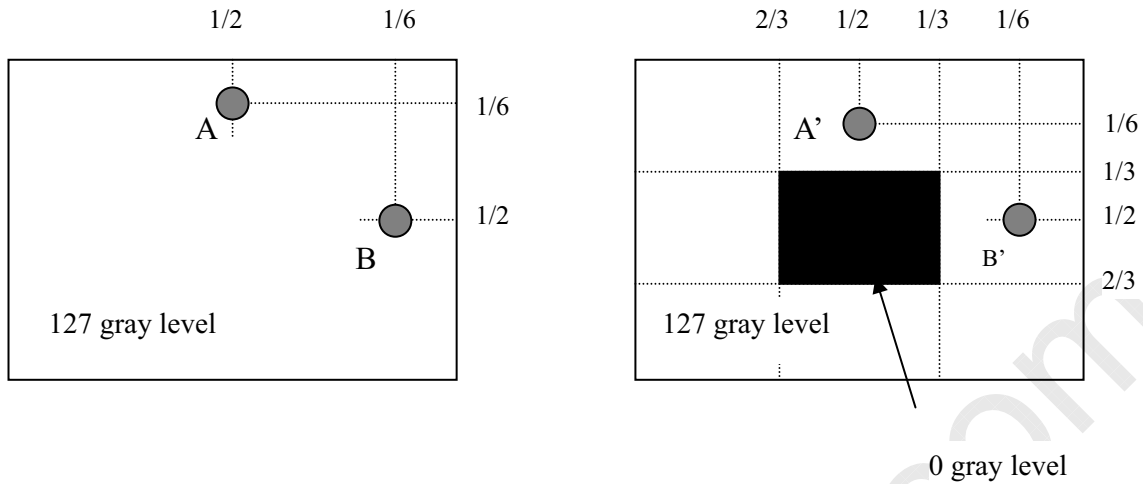
Note 7:

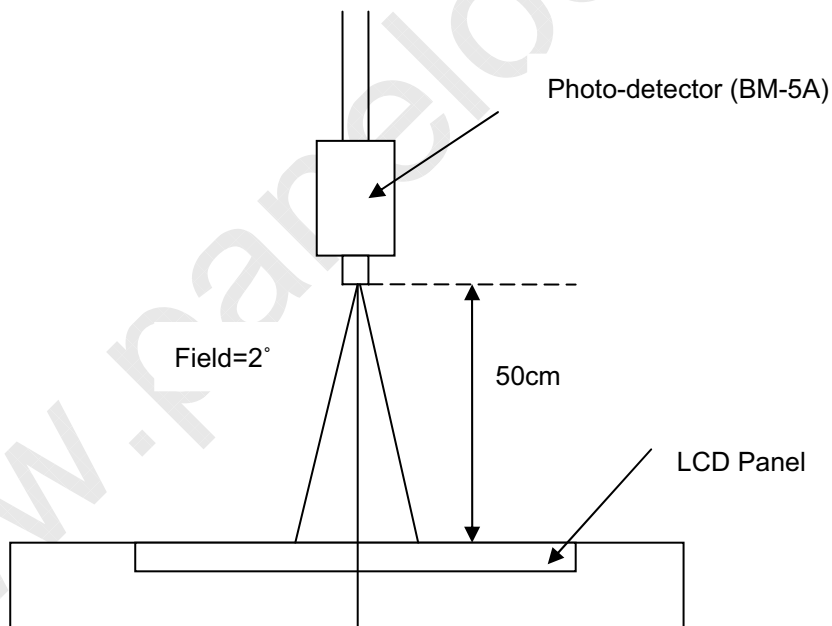1/2   1/6   2/3   1/2   1/3   1/6

A   A'

1/6   1/6
                                     1/3
B   1/2   B'   1/2
                                                   2/3

127 gray level   127 gray level

0 gray level

$| L_A - L_{A'} | / L_A \times 100\% = 1.5\%$ max., L_A and $L_{A'}$ are brightness at location A and A'

$| L_B - L_{B'} | / L_B \times 100\% = 1.5\%$ max., L_B and $L_{B'}$ are brightness at location B and B'

Note 8: Optical characteristic measurement setup.

Photo-detector (BM-5A)

Field=2°

50cm

LCD Panel

D. Reliability test items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240Hrs	Note 1	Note 2
Low temperature storage	-20°C, 240Hrs	Note 1	Note 2
High temperature & high humidity operation	40°C, 90%RH, 240Hrs (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240Hrs	Note 1	Note 2
Low temperature operation	0°C, 240Hrs	Note 1	Note 2
Thermal Shock (non-operation)	-20°C~60°C -20°C /1Hr, 60°C /1Hr, 100cycles	Note 1	Note 2
Electrostatic discharge (ESD) (non-operation)	Contact:+/-8kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 16 points Air discharge:+/-15kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 9 points time/1 sec, total 9 points	Note 1	Note 2
Vibration (non-operation)	Vibration level : 1.5G Bandwidth : 10-300Hz Waveform : sine wave, sweep rate : 10min 30 min for each direction X, Y, Z (1.5 Hrs in total)	Note 1	Note 2
Mechanical Shock (non-operation)	Shock level : 50G, 11ms Waveform : Half sine wave Direction : ±X, ±Y, ±Z One time each direction	Note 1	Note 2
MTBF Demonstration	30,000 hours with confidence level 90%	Note 1	Note 3

Note1: Pass: Normal display image with no obvious non-uniformity and no line defect. Partial transformation of the module parts should be ignored.

Fail: No display image, obvious non-uniformity, or line defects.

Note2: Evaluation should be tested after storage at room temperature for two hour.

Note 3: The MTBF calculation is based on the assumption that the failure rate distribution meets the Exponential Model.

E. Safety

1. Sharp Edge Requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

2. Materials

a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

F. Display quality

The display quality of the color TFT-LCD module should be in compliance with the Innolux's Incoming inspection standard.
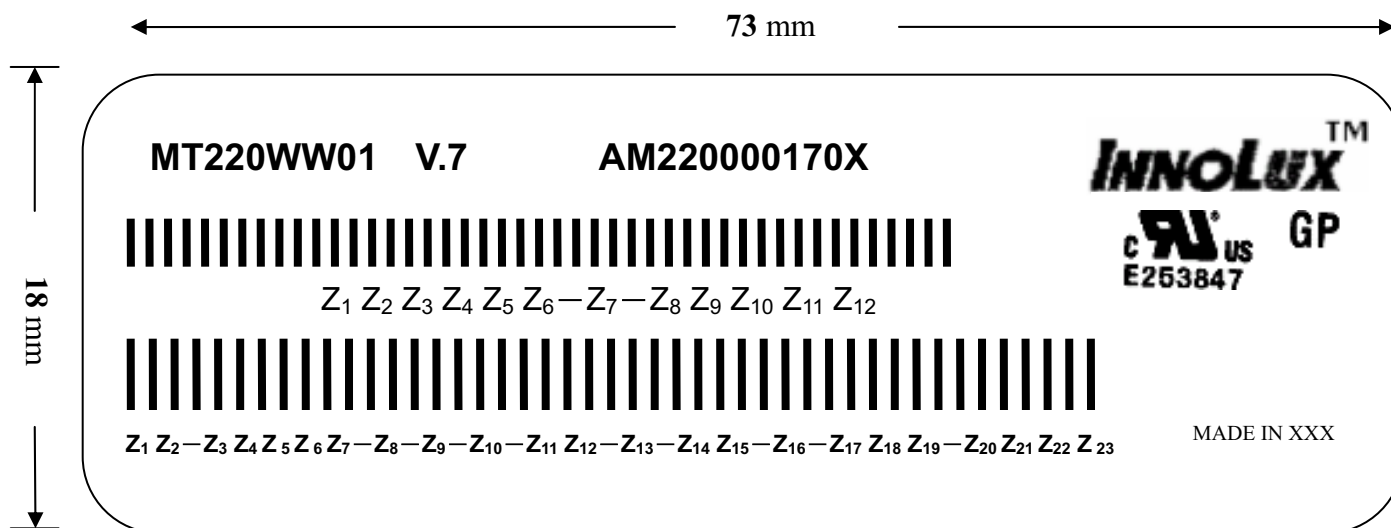
G. Handling precaution

The Handling of the TFT-LCD should be in compliance with the Innolux's handling principle standard.

SPEC NO. MT220WW01 V.7

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H. Label

1. Module Label

73 mm

18 mm

MT220WW01　V.7　　　AM220000170X

INNOLUX ™

Z_1 Z_2 Z_3 Z_4 Z_5 Z_6—Z_7—Z_8 Z_9 Z_{10} Z_{11} Z_{12}

Z_1 Z_2—Z_3 Z_4 Z_5 Z_6 Z_7—Z_8—Z_9—Z_{10}—Z_{11} Z_{12}—Z_{13}—Z_{14} Z_{15}—Z_{16}—Z_{17} Z_{18} Z_{19}—Z_{20} Z_{21} Z_{22} Z_{23}

c UL us   E253847   GP

MADE IN XXX

(a) Model Number: MT220WW01

(b) Version: V.7

(c) Serial ID I: Z_1　Z_2　Z_3　Z_4　Z_5　Z_6　Z_7　Z_8　Z_9　Z_{10}　Z_{11}　Z_{12}

Serial No.

Code of grade

INL internal use

INL internal use

Year, Month, Date

INL internal use

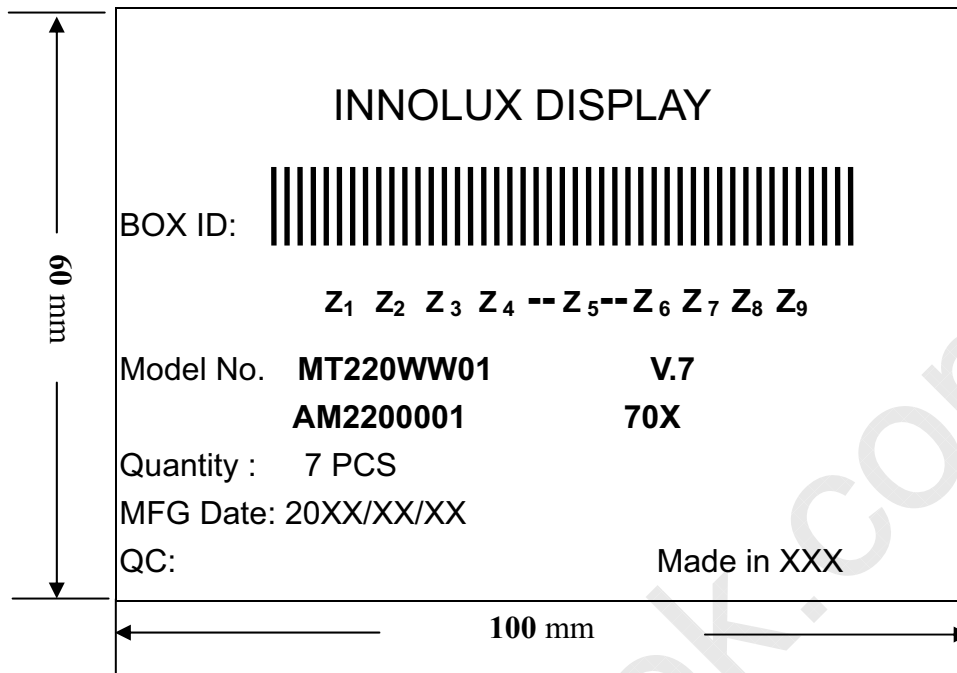Serial ID includes the information as below:

1. Manufactured Date: Year: 0~9, for 2000~2009

2. Month: 1~9 & A~C for Jan.~Dec.

3. Date: 1~9 & A~Z (exclude I, O, Q, U) for 1th~31th

4. Code of grade: 1, 2, 3, 5, E

5. Serial No.: Module manufacture sequence number.

(d) Serial ID II (INL internal use)

2. Carton Label

INNOLUX DISPLAY
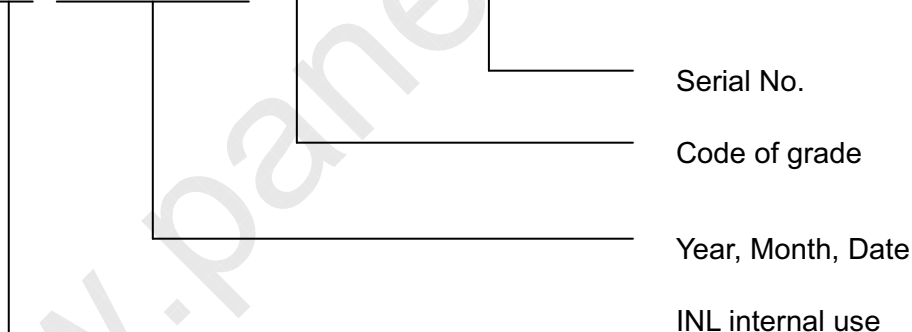
BOX ID:

Z_1 Z_2 Z_3 Z_4 -- Z_5 -- Z_6 Z_7 Z_8 Z_9

Model No.　**MT220WW01**　　　　**V.7**
　　　　　　AM2200001　　　　**70X**

Quantity :　　7 PCS

MFG Date: 20XX/XX/XX

QC:　　　　　　　　　　Made in XXX

100 mm

60 mm

(a)　Model Number: MT220WW01

(b)　Version: V.7

(c)　Packing quantity: 7 pcs

(d)　Serial ID: Z_1　Z_2　Z_3　Z_4　Z_5　Z_6　Z_7　Z_8　Z_9

　　　　Serial No.

　　　　Code of grade

　　　　Year, Month, Date

　　　　INL internal use

Serial ID includes the information as below :

(a) Manufactured Date: Year: 0~9, for 2000~2009
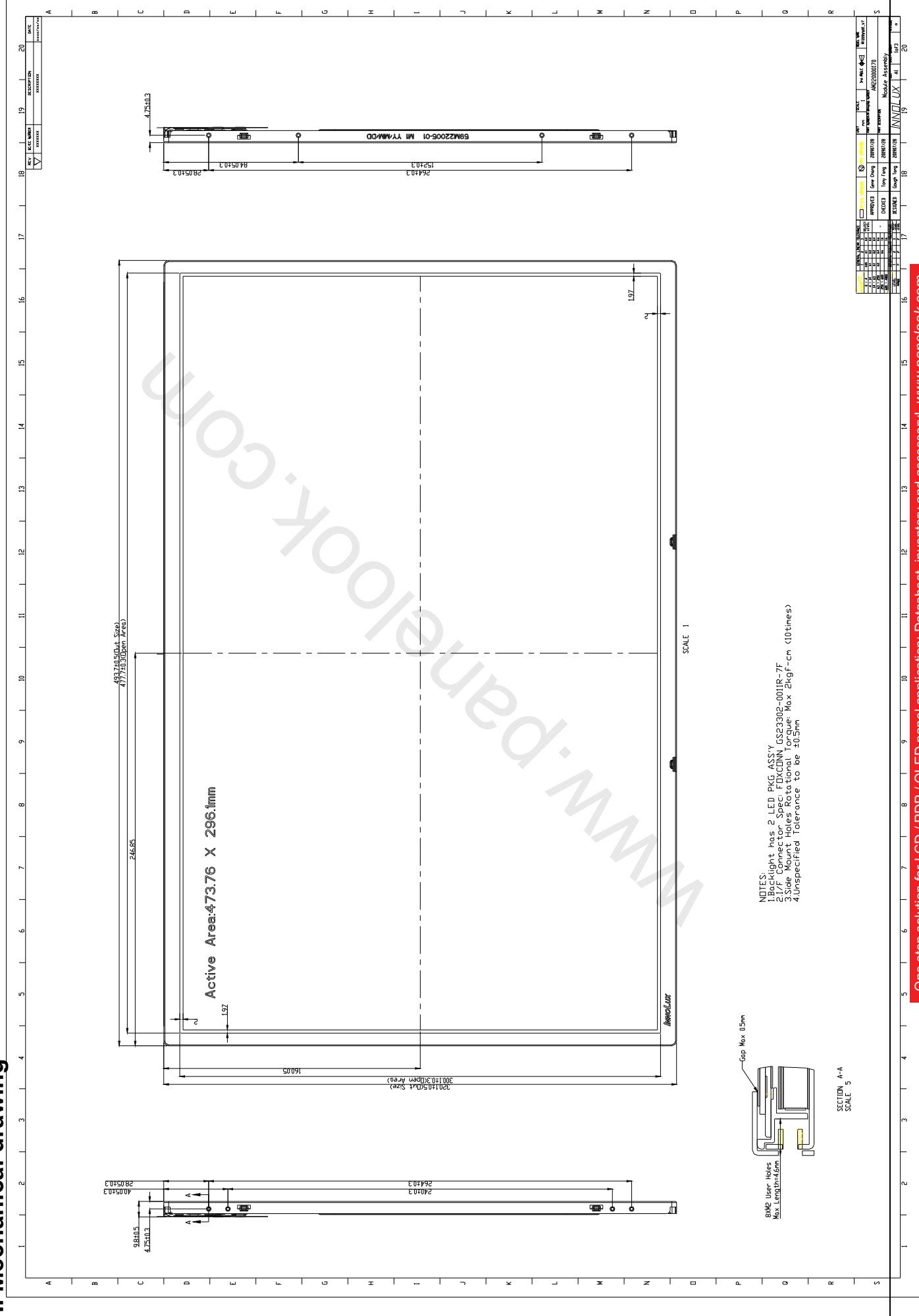
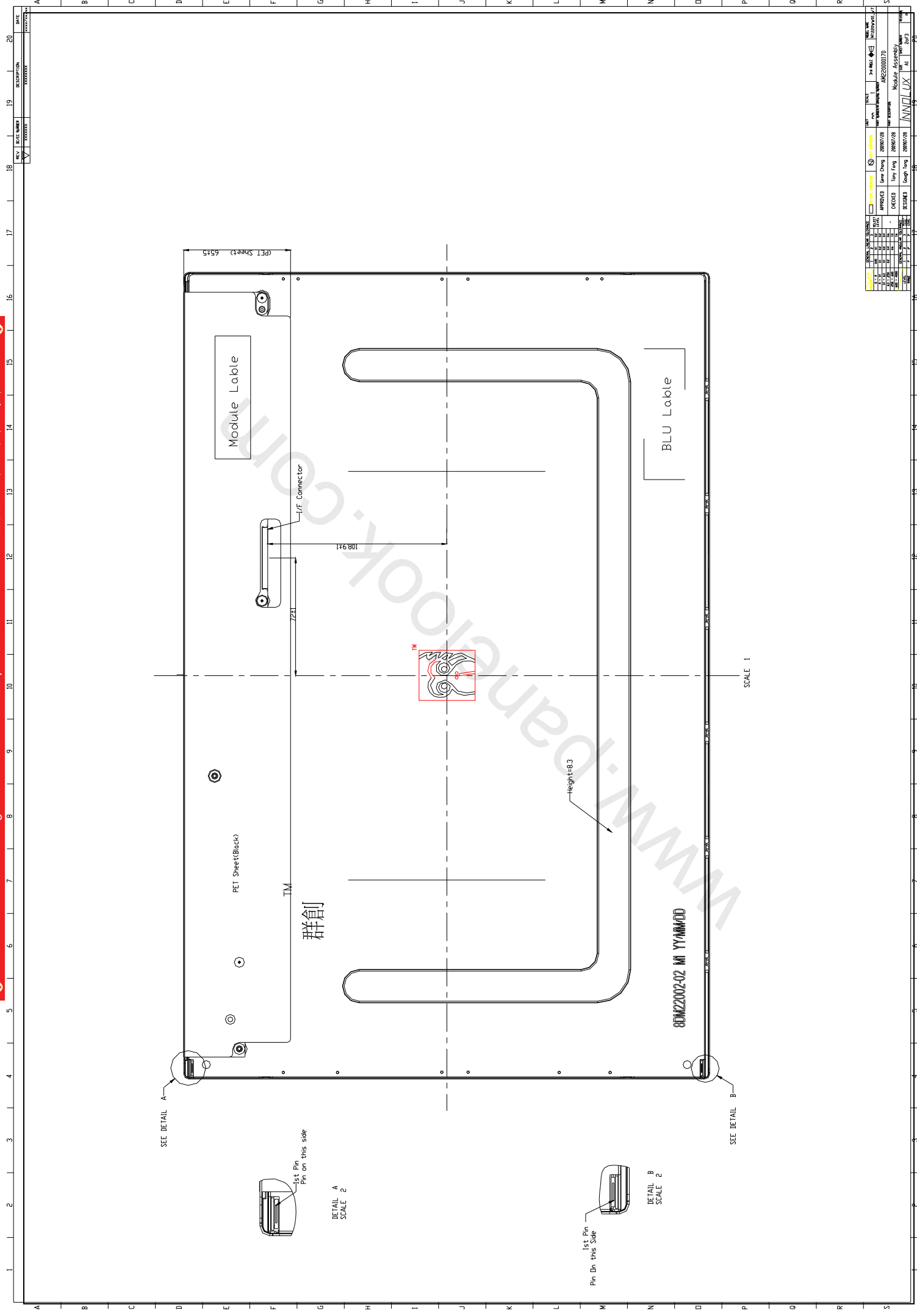　　　　　　　　Month: 1~9 & A~C for Jan.~Dec.

　　　　　　　　Date: 1~9 & A~Z (exclude I, O, Q, U) for 1th~31th

(b) Code of grade: 1, 2, 3, 5, E

(c) Serial No.: Module packing sequence number.

I. Mechanical drawing

Active Area:473.76 X 296.1mm

NOTES:
1.Backlight has 2 LED PKG ASS'Y
2.I/F Connector Spec: FDXCONN GS23302-0011R-7F
3.Side Mount Holes Rotational Torque: Max 2kgf-cm (10times)
4.Unspecified Tolerance to be ±0.5mm

SCALE 1

SECTION A-A
SCALE 5

Gap Max 0.5mm

8-M2 User Holes
Max Length=4.6mm

Module Lable

BLU Lable

(PET Sheet) 65±5

I/F Connector

108.9±1

72±1

Height=8.3

SCALE 1

PET Sheet(Black)

TM

群创

8DM2002-02 MI YY/MM/DD

SEE DETAIL A

1st Pin
Pin on this side

DETAIL A
SCALE 2

SEE DETAIL B

1st Pin
Pin On this Side

DETAIL B
SCALE 2

INNOLUX

Module Assembly

AM20000170

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